2003 envoy engine

Popular searches. My notifications My Account. More about the Envoy. Starting MSRP. Drivetrain on demand 4WD yes automatic locking hubs yes Transmission 4-speed automatic Center locking differential yes Drive type Four wheel drive electronic hi-lo gear selection yes mechanical center differential yes. Fuel tank capacity 22 gal. Engine Torque lb-ft rpm Base engine size 4. Power Feature Power mirrors yes 2 one-touch power windows yes remote keyless power door locks yes Heated mirrors yes. Instrumentation low fuel level warning yes clock yes compass yes trip computer yes tachometer yes. Front Seat Dimensions bucket front seats yes height adjustable passenger seat yes Front leg room Rear Seat Dimensions Rear head room Rear hip Room Rear leg room Rear shoulder room Dimensions Front track Maximum cargo capacity Curb weight lbs. Gross weight lbs. Cargo capacity, all seats in place Angle of approach Angle of departure 23 degrees Length Maximum towing capacity lbs. Ground clearance 8 in. Height Wheel base in. Width Rear track Sponsored cars related to the Envoy. Suspension front independent suspension yes solid live axle rear suspension yes double wishbone front suspension yes. Warranty Basic 3 yr. Drivetrain 3 yr. Rust 6 yr. Roadside 3 yr. See Envoy Inventory. Sign Up. It was introduced for the model year. After the first generation Envoy was discontinued after the model year, the Envoy was reintroduced and redesigned for the model year, and it was available in the GMC line of vehicles from the to model years. The Envoy nameplate had previously used by GM in Canada during the s that was sold only at Chevrolet and Oldsmobile dealers. The Envoy first hit dealers' lots in as a model. The Bravada was redesigned for and the TrailBlazer was redesigned for as well. The Blazer 4-door and the Jimmy 4-door were both discontinued after the model year and the Blazer 2-door and the Jimmy 2-door were both discontinued after the model year the Jimmy was discontinued in Canada after the model-year. Most of the S and Sonoma trucks which share the same chassis were being discontinued during the , and model years. The Envoy had many extra features not available on the regular Jimmy 4-door including: a remote trunk release, heated driver's and passenger's seats, as well as a Bose sound system. Envoy replaced the Jimmy name in GMC's lineup in early for the model year. While it still shared a platform with the Chevrolet TrailBlazer , the exterior styling is different. This smooth, efficient inline 6 engine was duty tested at WOT for k miles before being approved for production, almost 3 years before production started in The 4L60e routes power to the back with rear differential gears varying from 3. Twintube Bilstein shock absorbers dampen the IFS up front and the 5-link coil sprung rear solid axle or opt for GM's Auto-ride air suspension. All models in the line-up have 4-wheel disc brakes. A Displacement on Demand 5. The articulating headrests were discontinued, and made no longer available beginning for the model year for both the Envoy and the Envoy XL. Optional features included an in-dash, six-disc CD changer, a Bose six-speaker premium amplified audio system, a rear DVD entertainment system by Panasonic , a security system, polished aluminum-alloy wheels, a leather-wrapped steering wheel, luxury leather-trimmed seating surfaces, dual heated front bucket seats, and a power moonroof. The uplevel SLT trim level, available from â€", added extra luxury and convenience features to the base SLE trim, including a six-disc, in-dash CD changer, a Bose six-speaker premium amplified audio system, OnStar , polished aluminum-alloy wheels, luxury leather-trimmed seating surfaces, dual heated front bucket seats, Driver Information Center, faux wood interior trim panels, a universal garage door opener system with a travel note recorder, a dual-zone, automatic climate control system, and a driver's memory system for driver's seat, mirrors, and radio preset settings. Optional features included an in-dash, touchscreen GPS navigation system later models , a rear DVD entertainment system by Panasonic , and a power moonroof. The top-of-the-line Denali trim level, available from â€", was the most luxurious trim level of the Envoy, adding additional luxury features to the already luxurious SLT trim. Additional features included additional faux wood interior trim accents, a two-tone, luxury leather-trimmed interior, a 'Denali' emblem for the steering wheel, the 5. During this year, GMC detached many options from packages in order for customers to save money. For the XL model, a new engine was introduced, a 5. Articulating headrests are no longer available. Not many changes were made to any of the models this year. The only changes included the added feature of optional adjustable pedals, optional XM Satellite Radio , and an optional DVD-based navigation system. In , a Denali luxury version of the Envoy became available. Both the standard-length wheelbase Envoy as well as the Envoy XL were available with the Denali trim option. The Envoy Denali features the hallmark bullet pattern grille and an upgraded interior with high-end car-like features such as heated power seats, extensive woodgrain trim, and rain-sensing windshield wipers. It also featured the GM Vortec 5. Across the range, seating was restyled in hopes to increase comfort and quality of control of driving position. Additionally, a touch DVD navigation system was offered as an option. The option of side airbags evolved from previously just front-seat side-impact airbags to full-length side curtain airbags, covering both rows of seats in the XL model, all three rows. For , GMC added

standard stability control, called "Stabilitrak," as well as standard cruise control, OnStar, and a tire pressure monitoring system. For the Denali, new inch alloy wheels were introduced. For side-curtain airbags were made standard as well was XM Satellite Radio and Bluetooth wireless technology for wireless phones. The SUVs were sold or registered in 20 U. The Envoy XL was the full-size counterpart to the five-passenger mid-size Envoy. One unique element of the Envoy XL was the availability of a usable third row that was comfortable for a 6-foot 1. This roof is disguised by standard roof racks. The Envoy XL was longer than the short-wheelbase Yukon. It featured a retractable rear roof section that slid forward, giving an open-topped load area. A 'MidGate' could be raised to partition the load area off from the passenger compartment; this was a solid, waist-height plastic-lined panel and with a retractable glass partition for the top half. The two-way tailgate could either hinge sideways or drop down; the tailgate glass retracted into the solid tailgate. The cargo area was waterproofed and fitted with a drainage system, allowing it to be easily hosed down for cleaning. The advantage of the Envoy XUV over a pickup truck or a more truck-like configuration such as the Chevrolet Avalanche which originated the MidGate feature is that with retractable roof and rear glass closed, the cargo area is sealed, full roof height and lockable, thus making it an enclosed SUV. The disadvantages include a much shorter cargo bed area and breakable side glass. Envoy XUV sales, projected at 30, per year approximately a third of Envoy production, were much slower with just over 12, sold in The final Envoy rolled off the assembly line when the Moraine, Ohio plant shut down. It is unknown if the Envoy name will return should the second generation of the TrailBlazer go on sale in the North American market. From Wikipedia, the free encyclopedia. American mid-size sport utility vehicle. This article needs additional citations for verification. Please help improve this article by adding citations to reliable sources. Unsourced material may be challenged and removed. Motor vehicle. Retrieved Retrieved 18 August Consumer Guide. November 13, Archived from the original on September 10, Retrieved March 27, GMC, a marque of General Motors, light truck timeline, international market, s€"present. Hidden categories: Articles with short description Short description is different from Wikidata Articles needing additional references from February All articles needing additional references All articles with unsourced statements Articles with unsourced statements from May Commons category link from Wikidata. Namespaces Article Talk. Views Read Edit View history. Help Learn to edit Community portal Recent changes Upload file. Download as PDF Printable version. Wikimedia Commons. Subcompact car. Compact crossover. Mid-size crossover. Full-size crossover. Compact SUV. Mid-size SUV. S Jimmy. Full-size SUV. K5 Jimmy. Yukon XL. Compact pickup. S Sonoma. Mid-size pickup. Full-size pickup. One of the most disconcerting sounds that you can hear coming from your GMC Envoy is the engine knocking. An engine knock can be a sign of major engine problems. It is usually caused by, ignition issues, timing issues, worn lower engine parts, and more. The fuel will burn in clumps instead of all at once. Once clump will burn the next clump and so on, instead of one continuous ignition. This creates the knocking sound and creates a lot of unwanted pressure on the combustion chamber and pistons, which can lead to engine damage. Before you do any looking around, is the check engine light on? The most common reason that the engine would be knocking is bad spark plugs. Spark plugs are vital to proper engine combustion. There needs to be a strong spark in order to achieve strong, clean combustion. Spark plugs are the most common part of the ignition system that can cause your Envoy to knock, and definitely where you should start looking. But there are other parts, such as the coil packs and plug wires if equipped that you should be looking at. The coil pack sends a spark to the plugs. This effectively increases the compression ratio. Too much compression can lead to detonation. Modern fuels are required to keep carbon cleaning detergents mixed in with them. Even so, deposits still do build, which can lead to a knocking sound. If this is the case, you will need to bring your Envoy into a shop to have it cleaned. You could also try one of those cleaners in a bottle, although we recommend bringing it to a professional. The wrong fuel can also cause a knocking sound. Using fuel with the proper octane rating is important. If you need to be using premium fuel, use it. Saving a couple bucks per fill up can do real damage to your engine. If something is off with this timing, the fuel will fire at the wrong time, and there can be a knock. Timing Chain Jumped Symptoms and Diagnosis. Modern engines use a knock sensor to correct knocking automatically. If the knock sensor goes bad, then the engine can knock. Rod bearings exist in-between the crankshaft and piston rods. If they wear out the pistons will no longer be able to smoothly move. Your Envoy will knock when this happens. The only thing to do in this situation is a lower engine rebuild. If there is anything that you would like to add, please leave a comment below. The wrong plug can burn too hot or cold, which has a direct effect on the combustion, and cause engine knocking. Worn Out Plug â€" Spark plugs can wear out over time. You need to replace the spark plugs at the recommended intervals. If you have high mileage, or if the plugs look worn, go ahead and change them all. Worn Bearings

Rod bearings exist in-between the crankshaft and piston rods. Popular searches. My notifications My Account. More about the Envoy. Starting MSRP. Drivetrain on demand 4WD yes automatic locking hubs yes Transmission 4-speed automatic Center locking differential yes Drive type Four wheel drive electronic hi-lo gear selection yes mechanical center differential yes. Fuel tank capacity 22 gal. Engine Torque lb-ft rpm Base engine size 4. Power Feature Power mirrors yes 2 one-touch power windows yes remote keyless power door locks yes Heated mirrors yes. Instrumentation low fuel level warning yes clock yes compass yes trip computer yes tachometer yes. Front Seat Dimensions bucket front seats yes height adjustable passenger seat yes Front leg room Rear Seat Dimensions Rear head room Rear hip Room Rear leg room Rear shoulder room Dimensions Front track Maximum cargo capacity Curb weight lbs. Gross weight lbs. Cargo capacity, all seats in place Angle of approach Angle of departure 23 degrees Length Maximum towing capacity lbs. Ground clearance 8 in. Height Wheel base in. Width Rear track Sponsored cars related to the Envoy. Suspension front independent suspension yes solid live axle rear suspension yes double wishbone front suspension yes. Warranty Basic 3 yr. Drivetrain 3 yr. Rust 6 yr. Roadside 3 yr. See Envoy Inventory. Sign Up. Subaru Tesla Toyota Volkswagen Volvo. Research By Category Body Style. Start a Loan Request Form Today! Used Cars. By Make. New Acadia Canyon. Sierra Sierra HD. Terrain Yukon. Used Envoy. Used By Year. Filter Results reset. Drivetrain 2WD 4. Model Envoy 4. Envoy XL 4. Trim SLE 4. SLT 4. Quick Specs. Engine Gas I6, 4. Drivetrain Rear Wheel Drive. Passenger Capacity 5. Passenger Doors 4. Body Style Sport Utility. Dimensions Vehicle. Rear Door Type Liftgate. Gross Axle Wt Rating - Front lbs Gross Combined Wt Rating lbs 10, Curb Weight - Rear lbs Gross Axle Wt Rating - Rear lbs Gross Vehicle Weight Rating Cap lbs Curb Weight - Front lbs Second Head Room in Front Shoulder Room in Second Hip Room in Front Head Room in Second Leg Room in Front Hip Room in Front Leg Room in Second Shoulder Room in Wheelbase in Height, Overall in Ground Clearance, Rear in 8. Ground to Top of Load Floor in Overhang, Front in - TBD -, Ground Clearance, Front in 8. Cargo Area Length Floor to Seat 1 in Cargo Box Width Wheelhousings in Cargo Area Length Floor to Seat 2 in Cargo Box Area Height in Fuel Economy Fuel Tank. Fuel Tank Capacity, Approx gal Performance Specs Engine. Engine Order Code LL8. Fuel System SFI. Engine Type Gas I6. Engine Oil Cooler NA. Displacement 4. Clutch Size in NA. First Gear Ratio :1 3. Sixth Gear Ratio :1 NA. Transfer Case Model NA. Trans Description Cont. Fourth Gear Ratio :1 0. Trans Order Code M Second Gear Ratio :1 1. Reverse Ratio :1 2. Again NA. Fifth Gear Ratio :1 NA. Seventh Gear Ratio :1 NA. Trans Type 4. Third Gear Ratio :1 1. Brake Type Pwr. Front Brake Rotor Diam x Thickness in Disc - Front Yes or Yes. Rear Brake Rotor Diam x Thickness in Disc - Rear Yes or Yes. Drum - Rear Yes or NA. Turning Diameter - Curb to Curb ft Steering Ratio :1 , On Center Steering Ratio :1 , At Lock Front Wheel Size in 17 x 7. Spare Wheel Material Steel. Front Wheel Material Aluminum. Rear Wheel Size in 17 x 7. Rear Wheel Material Aluminum. Spare Wheel Size in 17 x 7. Stabilizer Bar Diameter - Front in 1, Suspension Type - Front Coil. Axle Type - Rear Semi-Floating. Shock Absorber Diameter - Front mm Spring Capacity - Rear lbs Axle Ratio :1 - Front NA. Stabilizer Bar Diameter - Rear in 0. Suspension Type - Rear Coil. Axle Capacity - Front lbs Shock Absorber Diameter - Rear mm Axle Type - Front Independent. Axle Ratio :1 - Rear 3. Spring Capacity - Front lbs Axle Capacity - Rear lbs Safety Features Safety. Air Bag-Frontal-Driver Yes. Air Bag-Frontal-Passenger Yes. Brakes-ABS Yes. Daytime Running Lights Yes. Traction Control No. Night Vision No. Rollover Protection Bars No. Fog Lamps Yes. Parking Aid No. Tire Pressure Monitor No. Back-Up Camera No. Stability Control No. Warranty Warranty. Basic Years 3. Corrosion Years 6. Drivetrain Years 3. Roadside Assistance Years 3. Other Specs Cooling System. Total Cooling System Capacity qts Maximum Alternator Watts NA. Maximum Alternator Capacity amps Looking for other models of the GMC Envoy? Gas Mileage. Rear Wheel Drive. Passenger Capacity. All Rights Reserved. Stock photography by izmo, Inc. Read our Cookie Policy. This page is for personal, non-commercial use. We get it. Ads can be annoying. But ads are also how we keep the garage doors open and the lights on here at Autoblog - and keep our stories free for you and for everyone. And free is good, right? If you'd be so kind as to allow our site, we promise to keep bringing you great content. Thanks for that. And thanks for reading Autoblog. Pricing Specs Equipment. Interior Front head room 40 " Rear head room 40 " Front shoulder room 59 " Rear shoulder room 59 " Front hip room 56 " Rear hip room 58 " Front leg room Maximum cargo capacity Standard seating 5 Exterior Length Gross weight 5, lbs. Fuel Fuel tank capacity Torque rpm 3, Payload 1, lbs. Maximum towing capacity 6, lbs. Drive type four-wheel Turning radius Research Another Vehicle. We notice you're using an ad blocker. Please consider allowing Autoblog. Allow Us! Here's how to disable adblocking on our site. Click on the icon for your Adblocker in your browser. A drop down menu will appear. Select the option to run ads for autoblog. The exact text will differ depending on the actual application you have running. Refresh the Autoblog page you were viewing. Hey again! You still haven't turned off your

adblocker or allowed our site. It only takes a few seconds. You must be logged in to perform that action. You must have JavaScript enabled to experience the new Autoblog. Please follow the instructions below to enable JavaScript in your browser. By choosing this color:. Cancel Change Color. By choosing this option:. Cancel Confirm. Updating Configuration No real problems, had to have brakes done a couple of times and the check engine light comes on for no apparent reason but other than that it is a very nice vehicle. I also don't care for the placement of the seatbelts in the driver's and passenger seats. Yes I would! I love that the sports utility vehicle comes in the 4 wheel drive. The ride in this vehicle is smooth. I believe that the weight of this vehicle helps it get around in snow. If you are tall this vehicle may not be for you. My husband does not have a lot of headroom. Also the placement of the rearview mirror is low and you sometimes have to look around it. This sports utility vehicle seems to have plenty of room in the rear for traveling with two teenage daughters. They also have enough room in the back seats. This sports utility vehicle very reliable. I have owned the same one for ten years and have not had any major mechanical issues. The gas tank on this sports utility vehicle is little over 15 gallons. This sports utility vehicle has the option of a sunroof. I love this feature. My two teen daughters loved this too. I taught each one to drive in it. I am also a fan of the lumbar support in the front seats. I have some back and hip issues and it helps on long drives and even my short commutes in town. I seat functions on the drivers side is all mechanical and the ones on the passenger side is manual. I like that you sit high in this sports utility vehicle. It makes seeing in traffic easier. Other sports utility vehicle I have driven have not sat as high. Change Year. Owner Reviews. For Sale Near Me. Select Model: SLE. Optional Torque: ft. Optional Horsepower: hp. Compare Models SLE. Gasoline Fuel. Gross Vehicle Weight. Mirrors, outside rearview, foldaway. Moldings, bodyside, body-color. Wipers, intermittent, front-inc: pulse washers. Fog lamps, front, round, halogen. Luggage rack, roof-mounted, Black, side rails only. Interior Features Seat trim, Deluxe Cloth. Seats, rear split-folding. Cupholders, 2 front, on floor console. Console, overhead-inc: UG1 Universal transmitter. Panel, rear cargo, adjusts to extend flat load floor, act as rear cargo cover or stows for maximum cargo room. Mirror, inside rearview, prismatic. Cupholders, 2 second row. Cupholders, 2 third row. Floor covering, color-keyed carpeting. Windows, power, rear quarter. Defogger, rear-window, electric. Universal Transmitter, HomeLink-inc: garage door opener, 3-channel programmable. Keyless entry, remote, programmable-inc: 2 transmitters, remote panic alarm. Steering wheel, leather-wrapped rim-inc: theft-deterrent locking feature. Compare Safety Features Brakes, 4-wheel antilock, 4-wheel disc. Door locks, child security, rear. Judith C wrote on December 4, Mugs wrote on October 8, Laura A wrote on October 1, See All Reviews Continue to Overview. Quick Links Download this manual. Table of Contents. General motors company envoy automobile owner manual pages. Page 3 We reserve the right to make changes after that time without further notice. Page 4 Safety Warnings and Symbols You will find a number of safety cautions in this book. These mean there is something that could you or other people. Page 5 Vehicle Damage Warnings Also, in this book you will find these notices: Notice: These mean there is something that could damage your vehicle. A notice will tell you about something that can damage your vehicle. Many times, this damage would not be covered by your warranty, and it could be costly. Power Seats Power Lumbar Heated Seats Power Reclining Seatbacks Head Restraints Rear Seats Safety Belts Safety Belts: They Are for Everyone The power seat controls are located on the outboard side of the front seat cushions. The horizontal control adjusts the seat cushion and the vertical control adjusts the seatback. Move the front of the seat control up or down to adjust the front portion of the cushion. Page 10 Heated Seats Your vehicle may have heated front seats. The buttons used to control this feature are located on the front door armrests. The engine must be running for the heated seat feature to work. To heat the entire seat, press the horizontal button with the heated seat symbol. Page 11 Power Reclining Seatbacks The vertical power seat control described earlier allows the seatback to recline. Page 12 Head Restraints Adjust your head restraint so that the top of the restraint is closest to the top of your head. This position reduces the chance of a neck injury in a crash. Page Rear Seats Rear Seats Rear Seat Operation Your vehicle may have a folding rear seat which lets you fold the seatbacks down for more cargo space. Pull up on the loop located where the seat cushion meets the seatback to fold the seat cushion up and out of the way. Page 14 To return the head restraint to the upright position, reach behind the seat and pull the restraint up until it locks into place. Push and pull on the head restraint to make sure that it is latched securely. Page 15 Returning the Seats to an Upright Position To return the seat to the upright position, do the following: 1. Return the seat to the floor pins by rotating the seat down to reengage the seat hooks. Try to raise the seat to check that it is locked down. It also tells you some things you should not do with safety belts. Page 18 Get it up to speed. Then stop the vehicle. Put someone on it. The rider doesn't stop. Page 20 or the safety belts! With safety belts, you slow down as the vehicle does. You get more

time to stop. You stop over more distance, and your strongest bones take the forces. Page 22 Lap-Shoulder Belt The driver has a lap-shoulder belt. Close and lock the door. Adjust the seat so you can sit up straight. Pick up the latch plate and pull the belt across you. Page 23 5. To make the lap part tight, pull up on The lap part of the belt should be worn low and snug on the shoulder belt. In a crash, this applies force to the strong pelvic bones. The shoulder belt is too loose. You can be seriously hurt if ,Jur shoulder belt too loose. In forward too much, which could increase injury. The shoulder belt should fit against your body. The belt is buckled in the wrong place. In a crash, the belt would go up over your abdomen. The belt forces would be there, not at the pelvic bones. Page 26 What's wrong with this? The shoulder belt is worn under the arm. It should be worn over the shoulder at all times. You can be seriously injured if you wear the shoulder belt under your arm. In a crash, your body would move too far forward, which would increase the chance of head and neck injury. Page 27 What's wrong with this? If a belt is twisted, make it straight so it can work properly, or ask your dealer to fix it. Page 28 To unlatch the belt, just push the button on the buckle. The belt should go back out of the way. Before you close the door, be sure the belt is out of the way. Accident statistics show that unbelted people in the rear seat are hurt more often in crashes than those who are wearing safety belts. Page 31 Lap-Shoulder Belt All rear seating positions have lap-shoulder belts. Push the latch plate into the buckle until it clicks. Pull up on the latch plate to make sure it is secure. Page 32 The lap part of the belt should be worn low and snug on the hips, just touching the thighs. In a crash this applies force to the strong pelvic bones. And you'd be less likely to slide under the lap belt. If you slid under it, the belt would apply force at your abdomen. Page 33 To unlatch the belt, just push the button on the buckle. If not, you can get it from your GM dealer. Rear shoulder belt comfort guides provide added safety belt comfort for older children who have outgrown booster seats and for small adults. Page 35 4. Buckle, position and release the safety belt as described in Rear Seat Passengers on page Make sure that the shoulder belt crosses the shoulder. To remove and store the comfort guides, squeeze the belt edges together so that you can take them out of the guides. Page 36 3. Be sure that the belt is not twisted and it lies flat. The elastic cord must be under the belt and the guide on top. Page 38 Never do this. Here two children are wearing the same belt. In a crash, the two children can be crushed together and seriously injured. A belt must be used by only one person at a time. Page 39 Never do this. Here a child is sitting in a seat that has a lap-shoulder belt, but the shoulder part is behind the child. If the child wears the belt in this way, in a crash the child might slide under the belt. Page 40 Every time infants and young children ride in vehicles, they should have the protection provided by appropriate restraints. People should never hold a baby in their arms while riding in a vehicle. Page 41 Children who are u- against, or very close to, any air bag when it inflates can be seriously injured or killed. Air bags plus lap-shoulder belts offer outstanding protection for adults and older children, but not for young children and infants. Page 42 For most basic types of child restraints, there are many different models available. When purchasing a child restraint, be sure it is designed to be used in a motor vehicle. If it is, the restraint will have a label saying that it meets federal motor vehicle safety standards. Page 43 Child Restraint Systems An infant car bed A , a special bed made for use in a motor vehicle, is an infant restraint system designed to restrain or position a child on a continuous flat surface. Some booster seats have a shoulder belt positioner, and some high-back booster seats have a five-point harness. Page 45 How do child restraints work? A child restraint system is any device designed for use in a motor vehicle to restrain, seat, or position children. A built-in child restraint system is a permanent part of the motor vehicle. Page 46 Where to Put the Restraint Accident statistics show that children are safer if they are restrained in the rear rather than the front seat. We, therefore, recommend that child restraints be secured in a rear outside seat position including an infant riding in a rear-facing infant seat, a child riding in a forward-facing child seat and an older child riding in a booster seat. For it to work, a top strap must be properly anchored to the vehicle. Some top strap-equipped child restraints are designed for use with or without the top strap being anchored. Page 48 Anchor the top strap to one of the following anchor points. Be sure to use an anchor point located on the same side of the vehicle as the seating position where the child restraint will be placed. Raise the head restraint and route the top strap Restraints on under it. To assist you in locating the lower anchors for this child restraint system, each seating position with the LATCH system will have two metal tabs where the seat cushion meets the seatback. Put the child restraint on the seat. Attach the anchor points on the child restraint to the anchors in the vehicle. See Top Strap if the child restraint has one. Be sure to page follow the instructions that came with the child restraint. Secure the child in the child restraint when and as the instructions say. Page 53 1 5. To tighten the belt, feed the shoulder belt back into the retractor while you push down on the child restraint. Your vehicle has a right front passenger air bag. Never put a rear facing child restraint in this seat. The child restraint instructions will

show you how. Buckle the belt. Make sure the release button positioned so you would be able to unbuckle the safety belt quickly if you ever had to. Page 56 6. You may find it helpful to use your knee to push down on the child restraint as you tighten the belt. Your vehicle has air bags a frontal air bag for the driver and another frontal air bag for the right front passenger. Your vehicle may also have a side impact air bag. Page 58 Here are the most important things to know about the air bag systems: 1 3 1 1 You can be severel Wearing your safety belt during a crash helps reduce your chance of hitting things inside the vehicle or being ejected from it. Always belt, even with frontal air Dags. The driver should sit as far back as possible while still maintaining control of the vehicle. Front occupants should not lean on or sleep against the door. Anyone who is up against, or very close to, any air bag when it inflates can be seriously injured or killed. Page 60 Where Are the Air Bags? The right front passenger's frontal air bag is in the instrument panel on the passenger's side. The driver's frontal air bag is in the middle of the steering wheel. Page 62 If something is between an occupant and an air bag, the bag might not inflate properly or it might force the object into that person causing severe injury or even death. The path of an inflating air bag must be kept clear. Page 63 In any particular crash, no one can say whether an air bag should have inflated simply because of the damage to a vehicle or because of what the repair costs were. For frontal air bags, inflation is determined by the angle of the impact and how quickly the vehicle slows down in frontal and near-frontal impacts. After the air bag inflates, it quickly deflates, so quickly that some people may not even realize the air bag inflated. Some components of the air bag module will be hot for a short time. Page 65 In many crashes severe enough to inflate an air bag, windshields are broken by vehicle deformation. Additional windshield breakage may also occur from the right front passenger air bag. Air bags are designed to inflate only once. There are parts of the air bag systems in several places around your vehicle. Your dealer and the service manual have information about servicing your vehicle and the air bag systems. Page Restraint System Check Restraint System Check Checking Your Restraint Systems Now and then, make sure the safety belt reminder light and all your belts, buckles, latch plates, retractors and anchorages are working properly. Look for any other loose or damaged safety belt system parts. If you see anything that might keep a safety belt system from doing its job, have it repaired. A damaged restraint system may not properly protect the person using it, resulting in serious injury or even death in a crash. To help make sure your restraint systems are working properly after a crash, have them inspected and any necessary replacements made as soon as possible. Door Locks Power Door Locks Delayed Locking Lockout Protection Leaving Your Vehicle Page 71 Section 2 HomeLin k Transmitter Programming the HomeLink Transmitter Glove Box Features and Controls 2. Convenience Cover 2. Page Keys Keys Leaving -. A child others could be badly injured even killed. They could operate the power windows or other controls even make the vehicle move. Page 73 This vehicle has one double-sided key for the ignition and door locks. It will fit with either side up. When a new vehicle is delivered, the dealer provides the owner with a pair of identical keys and a key code number. The key code number tells your dealer or a qualified locksmith how to make extra keys. Operation is subject to the following two conditions: 1. Page 75 Remote Keyless Entry System Operation If your vehicle has this feature, you can lock and unlock your doors from about 3 feet m up to 30 feet 9 m away using the remote keyless entry transmitter supplied with your vehicle. Page 76 Battery Replacement touch any of the circuitry. Static from your body transferred to these surfaces may damage the transmitter. To replace the battery in the remote keyless entry transmitter do the following:. Remove the ignition key and press the lock symbol to lock all of the doors at once. To unlock the doors, press the other side of the switch. Delayed Locking This feature makes it easier to use the power door locks to lock all the doors and the liftgate when leaving your Programmable Locking Feature The following is the list of available programming options: Mode 1: All doors lock when the transmission is shifted Mode 3: All doors unlock when the key is removed from the ignition. To use one of these following: 1. Open one of the rear doors. You will find a security lock lever located on the inside edge of each rear door. It can cause unconsciousness and even death. If you must drive with the liftgate open or if electrical wiring or other cable connections must pass through the seal between the body and the liftgate or liftglass A child can be overcome by the extreme heat and can suffer permanent injuries or even death from heat stroke. Never leave a child alone in a vehicle, especially with the windows closed in warm or hot weather. Page 84 Power Windows The controls for the power windows are located on the armrest on each of the side doors. Lightly tap the switch to open the window slightly. Although your vehicle has a number of theft-deterrent features, we know that nothing we put on it can make it impossible to steal. However, there are ways you can help. Content Theft-Deterrent Your vehicle may be equipped with a content theft-deterrent alarm system. Activate the system by locking the doors with the power door lock switch while the door is open, or with the remote keyless entry transmitter. Turn the key only with your hand.

Using a tool to force it could break the key or the ignition switch. Page 91 Engine Coolant Heater Your vehicle may have this feature. Usually, the coolant heater should be plugged in a minimum of four hours prior to starting your vehicle. Page 92 Automatic Transmission Operation There are several different positions for your shift lever. It is da -erous to get out of your vehicle if the shift lever is not fully in PARK P with the parking brake firmly set. It can help control your speed as you go down steep mountain roads, but then you would also want to use the brakes off and on. To get the most satisfaction out of four-wheel drive, you must be familiar with its operation. Read the part that follows before using four-wheel drive. You should use two-wheel drive high 2HI for most normal driving conditions. You or someone else could be seriously injured. The preferred method for shifting out of 4LO is to have your vehicle moving 1. Page 98 Your vehicle can roll. If you have left the engine running, the vehicle can move suddenly. Your vehicle could move suddenly if the shift lever is not fully in PARK P with the parking brake firmly set. If you have four-wheel drive, your vehicle will be free to roll even if your lever is in Page Shifting Out of Park P Your vehicle has an automatic transmission shift lock control system. See Automatic Transmission Operation on page Page Engine Exhvst Engine exhaust can kill. It can cause unconsciousness and death. You might have exhaust coming in if: Your exhaust system sounds strange or different. Your vehicle gets rusty underneath. Your vehicle was damaged in a collision. Page can be dangerous to get out of if the shift lever is not fully in PARK P with the parking brake firmly set. There are three additional buttons for the Onstar system. The mirror is set to zone eight upon leaving the factory. It will be necessary to adjust the compass to compensate for compass variance if you live outside zone eight. Under certain circumstances, such as during a long distance cross-country trip, it will be necessary to adjust for compass variance. Page Outside Manual Mirrors Adjust your outside mirrors so you can see a little of the side of your vehicle. Fold the mirrors in before entering a car wash. To do this, pull the mirrors in toward the vehicle. Push the mirrors back out when finished. A convex mirror can make things like other vehicles look farther away than they really are. If you cut too sharply into the right or left lane, you could hit vehicle. Curb view assist may be useful when you are parallel parking. Onstar uses global positioning system GPS satellite technology, wireless communications, and state of the art call centers to provide you with a wide range of safety, security, information and convenience services. You can place calls nationwide using voice-activated dialing with no contracts, no roaming charges and no access fees. Page Homelink Transmitter HomeLink Transmitter HomeLink , a combined universal transmitter and receiver, provides a way to replace up to three hand-held transmitters used to activate devices such as gate operators, garage door openers, entry door locks, security systems and home lighting. Additional HomeLink information can be found on the internet at Page Be sure that people and objects are clear of the garage door or gate operator you are programming. When programming a garage door, it is advised to park outside of the garage. Page 6. This can usually be found where the hanging antenna wire is attached to the motor-head unit. The indicator light will come on while the signal is being transmitted. Erasing HomeLink Buttons To erase programming from the three buttons do the following: 1. Page Storage Areas Storage Areas Glove Box To open your glove box, pull the handle on the front of the glove box and lower the door. Overhead Console The overhead console includes sunglasses storage, a HomeLink transmitter and a travel note recorder if equipped. Page You may also press and hold the button with the circle on it while you are speaking and then let it go when you are finished. To play back messages, press the button with the right arrow on it. Pressing the right arrow button more than once will return you to previously recorded messages. Insert the front corners of the panel into the top guides and slide the panel forward. Press down on the back of the panel to lock it in place. This acts as a cargo shade. Page Lower Position Insert the front corners of the panel into the lower guides and slide the panel forward. To prevent soiling the carpet, the panel may be installed either side up. Notice: To help avoid damage, do not load objects over lbs. Page Luggage Carrier If you try to ca something on vehicle that is longer or wider than the luggage carrier like paneling, plywood, a mattress and so forth the wind can catch it as you drive along. This can cause you to lose control. People in the vehicle could be injured. Be sure to secure any such item properly. Your vehicle has a rear floor storage lid located in the rear cargo area that allows you to put items underneath it. Page Cargo Cover If your vehicle has a cargo cover, you can use it to cover items in the cargo area of your vehicle. To install the cargo cover, do the following: 1. Align the endcap with the pocket in the trim panel located behind the rear seat. Page Sunroof Sunroof Your vehicle may be equipped with a power sliding sunroof. Press and release the back of the button in the overhead console to open the sunroof. Press and hold the button with the exit symbol for three seconds. A double chime will sound to let you know that the position has been stored. Tilt Wheel Turn SignaVMultifunction Lever Exterior Lamps Interior Lamps Accessory Power Outlets Climate

Controls Radio with Six-Disc CD Radio Personalization Page The main components of your instrument panel are the following: A. Exterior Lamp Controls B. Air Outlets C. Instrument Panel Cluster F. Audio Steering Wheel Controls G. Ignition Switch H. Audio System I. Page The button for the hazard warning flashers is located on top of the steering column. Press the button all the way down to make your front and rear turn signal lamps flash on and off. Page If a bulb is burned out, replace it to help avoid an accident. See Fuses and Circuit Breakers page and check for burned-out bulbs. If you have a trailer towing option with added wiring for the trailer lamps, a different turn signal flasher is used. Page Windshield Wipers Mist : For a single wiping cycle, turn the band to mist. Hold it there until the wipers start. Then let go. The wipers will stop after one wipe. If you want more wipes, hold the band on mist longer. Off : To stop the wipers, move the band to off. Page Windshield Washer Windshield Washer : To spray washer fluid on the windshield, press the windshield washer paddle. The wipers will clear the window and then either stop or return to your preset speed. Otherwise the washer fluid can form ice on the windshield, blocking your vision. Page Cruise Control On : Move the switch to this position to turn the cruise control system on. Page Setting Cruise Control 1. Move the cruise control switch 2. Get up to the speed you want. Press in the set button at the end of the lever and release it. Take your foot off the accelerator pedal. The accelerator pedal will not go down. Page Reducing Speed While Using Cruise Control Press in the set button at the end of the lever until you reach the lower speed you want, then release it. To slow down in very small amounts, briefly press the set button. Page Exterior Lamps Your exterior lamps knob is located on your instrument panel to the left of the steering wheel. Page There is a delay in the transition between the daytime and nighttime operation of the Daytime Running Lamps DRL and the automatic headlamp systems, so that driving under bridges or bright overhead street lights does not affect the system. The DRL and automatic headlamp system will only be affected when the light sensor sees a change in lighting lasting longer than the delay. Page Fog Lamps Your vehicle may have this feature. Use your fog lamps for better vision in foggy or misty conditions. Your ignition must be in RUN for your fog lamps to work. The fog lamp button is located on the instrument panel to the right of the exterior lamps knob. Page Dome Lamp Override The dome override button is located below the exterior lamps knob. To turn the dome lamps off, press the button. The dome lamps will remain off when a door is open. This will override the illuminated entry feature unless you use your keyless entry transmitter to unlock the vehicle. Page Reading Lamps Press the lens on the lamp located above the doors to turn the reading lamps on and off. Dome Lamps The dome lamps will come on when you open a door unless the dome lamp override is pressed in. You can also turn the dome lamps on by turning the thumbwheel, located next to the exterior lamps knob, all the way up to the top detent position. Page Accessory Power Outlets With the accessory power outlets, you auxiliary electrical equipment such as a cellular telephone or CB radio. Your vehicle may have accessory power outlets. The first two outlets are located below the cigarette lighter and the rear wiper switch on the instrument panel. The third outlet is located on the rear of the center console. Fan : Turn the left knob clockwise or counterclockwise to increase or decrease the fan speed. If the knob is in off outside air will still enter the vehicle, and will be directed based on the position of the mode knob. Slide the lever up or down to adjust the temperature. Page Rear Window Defogger The lines you see on the rear window warm the glass. Press this button to turn the rear window defogger on or off. An indicator light in the button will come on to let you know that the rear window defogger is active. The rear window defogger will automatically turn off approximately ten minutes after the button is pressed. Page Operation Tips Keep the hood and front air inlets free of ice, snow, or any other obstruction such as leaves. The heater and defroster will work far better, reducing the chance of fogging the inside of your windows. When you enter a vehicle in cold weather, turn the fan knob all the way to the right for a few moments before driving. The system will stay in the selected mode until the mode button is pressed again or the AUTO button is pressed. Page Manual Operation To change the current setting, select one of the following: Lfi Fan : This button allows you to manually adjust the fan speed. Press the up arrow to increase fan speed and the down arrow to decrease fan speed. Page You may notice a slight change in engine performance when the air-conditioning compressor shuts off and turns on again. This is normal. Air Conditioning Off : When you turn the air conditioning off, this symbol will appear on the display. When the air conditioning is selected or in AUTO mode, the system will run the air conditioning automatically. If you do, you could cut or damage the defogger and the repairs would not be covered by your warranty. Do not attach a temporary vehicle license, tape, a decal or anything similar to the defogger grid. Page Rear Climate Control System Your vehicle has one of the following rear comfort control systems. With either system, the rear comfort controls will be disabled when the front comfort control system is in defrost. This occurs to provide maximum airflow to clear the windshield. Envoy The temperature of the air coming through the

rear Page If your vehicle has the rear seat audio system, the lower buttons are used to adjust the rear seat comfort controls. The button with the up and down arrows on it regulates the fan speed. Page Envoy XL To operate the rear air conditioning system, the front air conditioning system must be on. With the front air conditioning system off, the rear system controls can only be used to circulate air in the rear of the vehicle. To adjust the airflow speed, turn the fan knob driver override switch , located on the floor console to 1, 2 or The rear mode and temperature positions now mimic Page Envoy XL Turn the knobs on the control panel to choose a fan speed, temperature and direction of airflow. Selecting panel mode will deliver air to the four headliner outlets. Selecting bi-level mode will deliver warmer air to the third seat floor outlet and cooler air to the headliner outlets. Page Steering Wheel Climate Controls You can adjust the fan speed and temperature of the front climate control system by using the buttons located on your steering wheel. Fan : Press the up or down arrow on this switch to increase or decrease the fan speed. The pictures will help you locate them. Warning lights and gages can signal that something is wrong before it becomes serious enough to cause an expensive repair or replacement. Page Instrument Panel Cluster Your instrument panel cluster is designed to let you know at a glance how your vehicle is running. Your odometer shows how far your vehicle has been driven, in either miles used in the United States or kilometers used in Canada. The odometer mileage can be checked without the vehicle running. The safety belt light will also come on and stay on for several seconds, then it will flash for Page If the air bag readiness light stays on after you start your vehicle, it means the air bag system may not be working properly. The air bags in your vehicle may not inflate in a crash, or they could even inflate without a crash. To help avoid injury to yourself or others, have your vehicle serviced right away if the air bag readiness light stays on after you start your vehicle. When the engine is running, the gage shows the condition of the charging system. Readings between the low and high warning zones indicate the normal operating range. Page Brake System Warning Light When the ignition is on, the brake system warning light will come on when you set your parking brake. If it stays on after your parking brake is fully released, it means you have a brake problem. Page Anti-Lock Brake System Warning Light With the anti-lock brake system, this light will come on when you start your engine and may stay on for several seconds. That's normal. A chime may also sound when the light comes on. If the light stays on, or comes on when you're driving, your vehicle needs service. Page This light should come on, as a check to show you it is working, when the ignition is on and the engine is not running. This light will also come on during a malfunction in one of two ways: Light Flashing A misfire condition has been Page Did you just drive through a deep puddle of water? If so, your electrical system may be wet. The condition will usually be corrected when the electrical system dries out. A few driving trips should turn the light off. Have you recently changed brands of fuel? If so, be sure to fuel your vehicle with quality fuel. Page Oil Pressure Gage United States The oil pressure gage shows the engine oil pressure in psi pounds per square inch when the engine is running. Canadian vehicles indicate pressure in kPa kilopascals. If you do, your engine can become so hot that it catches fire. Until it is reset, the light will be displayed when the engine is on. Try closing the liftgate or liftglass again. Never drive with the liftgate or liftglass even partially open. Page Here are four things that some owners ask about. None of these show a problem with your fuel gage: At the gas station, the gas pump shuts the gage reads full. It takes a little more or less fuel to fill up than the gage indicated. The DIC display is located on the instrument panel cluster above the steering wheel. The DIC can display information such as the trip odometer, fuel economy and personalization features. The DIC buttons are located on the steering wheel. Odometer Press the trip information button until the odometer appears on the display. This shows the total distance the vehicle has been driven in either miles or kilometers. Pressing the reset stem located on the instrument cluster with the vehicle off will also display the odometer. Page Personalization You can program certain features to a preferred setting for up to two people. Press the personalization button to scroll through the following personalization features. All of the personalization options may not be available on your vehicle. Only the options available will be displayed on your DIC. Pressing the select button will scroll through the available languages: Choosing a language will display all of the information on the DIC in the desired language. Page DIC Warnings and Messages Warning messages are displayed on the DIC to notify the driver that the status of the vehicle has changed and that some action may be needed by the driver to correct the condition. More than one message may appear at one time. If this message appears, stop as soon as possible and turn off the vehicle. Restart the vehicle and check for the message on the DIC display. If the message is still displayed, or appears again when you begin driving, the brake system needs service. If the temperature rises to a safe level, the message will clear. Pressing the select button will acknowledge this message and clear it from the DIC display. Page Audio System S Audio System s Notice: Before you add any sound equipment to your

vehicle like a tape player, CB radio, mobile telephone or two-way radio be sure you can add what you want. VOL Volume : Turn this knob to increase or to decrease volume. The display will show your selection. TUNE: Turn this knob to choose radio stations. SEEK : Press the right or the left arrow to seek to the next or to the previous station and stay there. Turn the knob to increase or to decrease. The display will show the bass or treble level. If a station is weak or noisy, you may want to decrease the treble. Using this system, your radio can do the following: Seek to stations broadcasting the selected type of programming, receive announcements concerning local and national emergencies, Press and hold AM FM for two seconds to turn alternate frequency on. AF ON will appear on the display. The radio may switch to stronger stations. Page When a traffic announcement comes on the current station or on a related network station, you will hear it, even if the volume is muted or a compact disc is playing. The traffic symbol and TRAF will appear on the display while the announcement plays. Page advance quickly within a track. Press and hold this pushbutton for less than two seconds to advance at six times the normal playing speed. Press and hold it for more than two seconds to advance at 17 times the normal playing speed. Release it to play the passage. The display will show ET and the elapsed time. SEEK Press the right or the left arrow to seek to the next or to the previous station and stay there. The radio will seek only to stations that are in the selected band and only to those with a strong signal. Turn the knob to move the sound toward the right or the left speakers. To change the default on the display, push the knob until you see the display you want, then hold the knob for two seconds. Press this button to see the message. The message may display the artist and song title, call in phone numbers, etc. If the whole message is not displayed, parts of it will appear every three seconds. Page Playing a Cassette Tape Your tape player is built to work best with tapes that are up to 30 to 45 minutes long on each side. Tapes longer than that are so thin they may not work well in this player. The longer side with the tape visible should face to the right. Press this pushbutton again to return to playing speed. The radio will play while the tape advances. The station frequency and FWD will appear on the display. Page Playing a Compact Disc Insert a disc partway into the slot, label side up. The player will pull it in and the disc should begin playing. The display will show the CB symbol. ET and the elapsed time will appear on the display. To change the default on the display track or elapsed time , push the knob until you see the display you want, then hold the knob for two seconds. VOL Volume : Turn the knob to increase decrease volume. With this feature, your audio system adjusts automatically to make up for road and wind noise as you drive. TUNE: Turn this knob to select radio stations. Using this system, the radio can do the following: Seek to stations broadcasting the selected type of programming, receive announcements concerning local and national emergencies, Once the desired category is displayed, press and hold either SCAN arrow, and the radio will begin scanning within your chosen category. You will hear the announcement, even if the volume is muted or a compact disc is playing. If the compact disc player is playing, play will stop during the announcement. This compact disc player will hold up to six discs. To insert one disc, do the following: Turn the ignition on. Then press the numbered pushbutton that corresponds to the CD you want play. To use repeat, do the following: To repeat the track you are listening to, press and release the RPT button. RPT will appear on the display. Press RPT again to turn it off. To repeat the disc you are listening to, press and hold the RPT button for two seconds. This feature is capable of saving 20 track selections. To save tracks into the song list feature, perform the following steps: 1. Turn the disc player on and load it with at least one disc. Page After a track has been deleted, the remaining tracks are moved up the list. When another track is added to the song list, the track will be added to the end of the list. To delete the entire song list: perform the following steps: 1. The entertainment system includes a DVD player, a video display screen, two sets of IR Infrared wireless headphones, a remote control and an instructional video disc. Before You Drive The video entertainment system is for passengers in the second and third row seats only. Page Battery Replacement To change the batteries, do the following: 1. Loosen the screw on the battery compartment door located the left side of the headphones. Replace the two AAA batteries in the compartment. Make sure that they are installed correctly. Page Video Screen The video screen is located in the overhead console. Push forward on the release button and the screen will fold down. Push the screen away from you and adjust its position as desired. Page Playing a Disc To play a disc, gently insert the disc with the label side slot. Page DVD Messages The following errors may be displayed: Disc Format Error: This message will be displayed if a disc is inserted upside down, if the disc is not able to be read or if the disc format is not compatible. Disc Play Error: This message will be displayed if the mechanism can not play the disc. Press this button while a disc is playing to pause. Press it again to continue playing. This button may not work when the DVD is playing the copyright or the previews. MENU: Press this button to view the media menu. The media menu is different on every disc.

Use the up and down and the right and the left arrow buttons to move the cursor around the media menu. This button could have different functions with different discs. The parental control button might have been pressed. The power LED will flash. Disc will not play. The Inputrritle on the remote might be set for auxiliary. The disc is upside down or is not compatible. Then follow the prompts. The remote does Point the remote directly not work. The rear seat passengers can only control the music sources that the front seat passengers are not listening to. For example, rear seat passengers may listen to a cassette tape or CD through headphones while the driver listens to the radio through the front speakers. The inactive tape or CD will remain safely inside the radio for future listening. Page Audio Steering Wheel Controls Audio Steering Wheel Controls If your vehicle has this feature, certain radio functions can be operated by using the controls on your steering wheel. When playing a cassette tape or compact disc, press this button to listen to the radio. Cassette tapes should be stored in their cases away from contaminants, direct sunlight and extreme heat. Cassettes are subject to wear and the sound quality may degrade over time. Always make sure the cassette tape is in good condition before you have your tape player serviced. Control of a Vehicle Locking Rear Axle Off-Road Recovery Passing Loss of Control Page Your Driving. The Road. Please start with a very important safety device in your vehicle: Buckle up. Page Many adults by some estimates, nearly half the adult population choose never to drink alcohol, so they never drive after drinking. There are good medical, psychological and developmental reasons for these laws. Page this means that a woman generally will reach a higher BAC level than a man of her same body weight when each has the same number of drinks. The law in an increasing number of U. In some other countries, the limit is even lower. They are the brakes, the steering and the accelerator. All three systems have to do their work at the places where the tires meet the road. Page Avoid needless heavy braking. Some people drive in spurts heavy acceleration followed by heavy braking rather than keeping pace with traffic. This is a mistake. Your brakes may not have time to cool between hard stops. Your brakes will wear out much faster if you do a lot of heavy braking. Suddenly, an animal jumps out in front of you. You slam on the brakes and continue braking. If one of the wheels is about to stop rolling, the computer will separately work the brakes at each front wheel and at both rear wheels. You can restore the automatic feature by using the same procedure. Page What should you do if this ever happens? Ease up on the accelerator pedal, steer the vehicle the way you want it to go, and slow down. Speed limit signs near curves warn that you should adjust your speed. Of course, the posted speeds are based on good weather and road conditions. If the level of the shoulder is only slightly below the pavement, recovery should be fairly easy. Ease off the accelerator and then, if there is nothing in the way, steer so that your vehicle straddles the edge of the pavement. Keep trying to steer and constantly seek an escape route or area of less danger. Also, see Braking on page Off-road driving can be great fun. The heaviest things should be on the load floor and forward of your rear axle. Put heavier items as far forward as you can. Page Environmental Concerns Off-road driving can provide wholesome and satisfying recreation. However, it also raises environmental concerns. We recognize these concerns and urge every off-roader to follow these basic rules for protecting the environment: Always use established trails, roads and areas that have been specially set aside for public off-road recreational driving; Page Controlling your vehicle is the key to successful off-road driving. One of the best ways to control your vehicle is to control your speed. Here are some things to keep in mind. At higher speeds: you approach things faster and you have less time to scan the terrain for obstacles. Page When you drive over obstacles or rough terrain, keep a firm grip on the steering wheel. When you drive over bumps, rocks, or other obstacles, your wheels can leave the ground. Steepness can be hard to judge. On a very small hill, for example, there may be a smooth, constant incline with only a small change in elevation where you can easily see all the way to the top. Page Ease up on your speed as you approach the top of the hill. Attach a flag to the vehicle to make you more visible to approaching traffic on trails or hills. Page must Here are some things you not do if you stall, or are about to stall, when going up a hill. Your vehicle will roll backwards very quickly and you could go out of control. Will I be able to maintain vehicle control? Hard-packed dirt? Are there hidden surface obstacles? Is there a hidden creek bank or even a river bottom with large Page Am I likely to stall when going downhill? Stop your vehicle by applying the regular brakes. Apply the parking brake. You could be seriously injured or killed. Find another route instead. Page Hard packed snow and ice offer the worst tire traction. On wet ice, for example, the traction is so poor that you will have difficulty accelerating. And if you do get moving, poor steering and difficult braking can cause you to slide out of control. These accumulations can be a fire hazard. After operation in mud or sand, have the brake linings cleaned and checked. These substances can cause glazing and uneven braking. Slow down, especially on higher speed roads. Your headlamps can light up only so much road ahead. On a wet road, you can't stop, accelerate or

turn as well because your tire-to-road traction isn't as good as on dry roads. And, if your tires don't have much tread left, you'll get even less traction. Page Driving too fast through large water puddles or even going through some car washes can cause problems, too. The water may affect your brakes. Try to avoid puddles. If you try to drive through flowing might at a low water crossing, your vehicle can be carried away. As little as six inches of flowing water can carry away a smaller vehicle. If this happens, you and other vehicle occupants could drown. Page City Driving City Driving One of the biggest problems with city streets is the amount of traffic on them. Here are ways to increase your safety in city driving: Know the best way to get to where you are going. Page Freeway Driving Freeway Driving Mile for mile, freeways also called thruways, parkways, expressways, turnpikes or superhighways are the safest of all roads. But they have their own special rules. Drive at the same speed most of the other drivers are driving. Expect to move slightly slower at night. When you want to leave the freeway, move to the proper lane well in advance. If you miss your exit, do not, under any circumstances, stop and back up. Or is it just plain falling asleep at the whee. Call it highway hypnosis, lack of awareness, or whatever. There is something about an easy stretch of road with the same scenery, along with the hum of the tires on the road, the drone of the engine, and the rush of the wind against the vehicle that can make you sleepy. Your brakes will have to do all the work of slowing down. You would then have poor braking or even none going down a hill. Page Winter Driving Winter Driving Here are some tips for winter driving: Have your vehicle in good shape for winter. You may want to put winter emergency supplies in your vehicle. Include an ice scraper, a small brush or broom, a supply of windshield washer fluid, a rag, some winter outer clothing, a small shovel, a flashlight, a red cloth and reflective warning triangles. Page Driving on Snow or Ice Most of the time, those places where your tires meet the road probably have good traction. However, if there is snow or ice between your tires and the road, you can have a very slippery situation. See Braking on Allow greater following distance on any slippery road. Page Here are some things to do to summon help and keep yourself and your passengers safe: Turn on your hazard flashers. Put on extra clothing or wrap a blanket around you. Page Snow can trap exhaust gases under your vehicle. This can cause deadly CO carbon monoxide gas to get inside. CO could overcome you and kill you. Page Towing Towing Towing Your Vehicle Consult your dealer or a professional towing service if you need to have your disabled vehicle towed. See Roadside Assistance Program on page Page Dinghy Towing When towing your vehicle, turn the ignition off. To prevent your battery from draining while towing, remove the Ignition A and the Ignition B fuses from the engine compartment fuse block. Be sure to reinstall the fuse when you reach your destination. Two-Wheel-Drive Vehicles Two-wheel-drive vehicles should not be towed with all four wheels on the ground. Page 4. Release the parking brake only after the vehicle being towed is firmly attached to the towing vehicle. The label shows the size of your original tires and the inflation pressures needed to obtain the gross weight capacity of your vehicle. If you do, parts on your vehicle can break, and it can change the way your vehicle handles. These could cause you to lose control and crash. Page Electronically Controlled Air Suspension System Your vehicle may be equipped with an electronically controlled air suspension system that automatically keeps your vehicle level as you load and unload. The system includes a compressor, two height sensors and two air springs supporting the rear axle. The system also has an internal clock to prevent overheating. Overload protection is designed to protect the air suspension system, and it is an indicator to the driver that the vehicle is overloaded. When the overload protection mode is on, it will not allow damage to the air compressor. For example, if the trailer is too heavy, the brakes may not work well at all. You and your passengers could be seriously injured. A good source for this information can be state or provincial police. Page Weight of the Trailer How heavy can a trailer safely be? It depends on how you plan to use your rig. For example, speed, altitude, road grades, outside temperature and how much your vehicle is used to pull a trailer are all important. And, it can also depend on any special equipment that you have on your vehicle. The GCWR for your vehicle should not be exceeded. Page Weight of the Trailer Tongue The tongue load A of any trailer is an important weight to measure because it affects the total or gross weight of your vehicle. The Gross Vehicle Weight GVW includes the curb weight of the vehicle, any cargo you may carry in it, and the people who will be riding in the vehicle. Page D 4 n g with a Trailer If you have a rear-most window open and you pull a trailer with your vehicle, carbon monoxide CO could come into your vehicle. It can cause unconsciousness or death. Page Following Distance Stay at least twice as far behind the vehicle ahead as you would when driving your vehicle without a trailer. This can help you avoid situations that require heavy braking and sudden turns. Page Driving On Grades Reduce speed and shift to a lower gear before you start down a long or steep downgrade. If you don't shift down, you might have to use your brakes so much that they would get hot and no longer work well. Page It can be dangerous to get out of your vehicle if the shift

lever is not fully in PARK P with the parking brake firmly set. Your vehicle can roll. You or others could be injured. Page Trailer Wiring Harness Your vehicle may be equipped with the seven-wire trailer towing harness. This harness has a seven-pin universal heavy-duty trailer connector that is attached to a bracket on the hitch platform. Additives Fuels in Foreign Countries Filling Your Tank Filling a Portable Fuel Container Page Section 5 Appearance Care Weatherstrips Cleaning the Outside Your Vehicle Finish Damage Underbody Maintenance Chemical Paint Spotting Page Service Service Your dealer knows your vehicle best and wants you to be happy with it. Genuine GM parts have one of these marks It tells you much more about how to service your vehicle than this manual can. To order the proper service manual, see Service Publications Ordering Information on page 7- Page Fuel Fuel Use of the recommended fuel is an important part of the proper maintenance of your vehicle. Gasoline Octane Use regular unleaded gasoline with a posted octane of 87 or higher. If the octane is less than 87, you may get a heavy knocking noise when you drive. Page California Fuel California Fuel If your vehicle is certified to meet California Emission Standards see the underhood emission control label , it is designed to operate on fuels that meet California specifications. If this fuel is not available in states adopting California emissions standards, your vehicle will operate satisfactorily on fuels meeting federal specifications, but emission control system performance may be affected. Never use leaded gasoline or any other fuel not recommended in the previous text on fuel. Page While refueling, hang the fuel cap by the tether using the hook located on the inside of the filler door. To remove the fuel cap, turn it slowly to the left counterclockwise. The fuel cap has a spring in it. If you let go of the cap too soon, it will spring back to the right. Page Filling A Portable Fuel Container When you put the fuel cap back on, turn it to the right clockwise until you hear a clicking sound. Make sure you fully install the cap. The diagnostic system can determine if the fuel cap has been left off or improperly installed. These include liquids like fuel, oil, coolant, brake fluid, windshield washer and other fluids, and plastic or rubber. You or others could be burned. Be careful not to drop or spill things that will burn onto a hot engine. Page 2. Then go to the front of the vehicle and release the secondary hood release. Lift the hood; release the hood prop from its retainer and put the hood prop into the slot in the hood. Page H. Radiator Pressure Cap A. Coolant Recovery Tank B. Engine Air CleanedFilter I. Engine Oil Fill Cap C. Windshield Washer Fluid Reservoir J. Brake Master Cylinder E. Page What Kind of Engine Oil to Use Oils recommended for your vehicle can be identified by looking for the starburst symbol. Do not use any oil which does not carry this starburst symbol. If you choose to perform the engine oil change service yourself, be sure Page As in the chart shown previously, SAE 5W is the only viscosity grade recommended for your vehicle. Page However, your engine oil and filter must be changed at least once a year and at this time the system must be reset. It is also important to check your oil regularly and keep it at the proper level. If the system is ever reset accidentally, you must change your oil at 3, miles 5 km since your last oil change. See Engine Compartment Overview on page for more information on engine air cleaner filter location. Page How to Check Because this operation can be a little difficult, you may choose to have this done at the dealership service department. If you do it yourself, be sure to follow all the instructions here, or you could get a false reading on the dipstick. Notice: Too much or too little fluid can damage your transmission. See Engine Compartment Overview on page for more information on location. This coolant is designed to remain in your vehicle for 5 years or , miles km , whichever occurs first, if you add only DEX-COOL extended life coolant. The following explains your cooling system and how to add coolant when it is low. Page Adding only plain water to your cooling system can be dangerous. Plain water, or some other liquid such as alcohol, can boil before the proper coolant mixture will. Turning the radiator pressure cap when the engine and radiator are hot can allow steam and scalding liquids to blow out and burn you badly. Stay away from the engine if you see or hear steam coming from it. Sometimes the engine can get a little too hot when you: Climb a long hill on a hot day. Stop after high-speed driving. Radiator Pressure Cap C. The vehicle should be parked on a level surface. See Engine Coolant on page for more information. You can add the proper coolant mixture directly to the radiator, but be sure the cooling system is cool before you do it. Page How to Add Coolant to the Radiator 1. You can remove the radiator pressure cap when the cooling system, including the radiator pressure cap and upper radiator hose, is no longer hot. Turn the pressure cap slowly counterclockwise about one full turn. If you hear a hiss, wait for that to stop. Page 3. See Engine Coolant information about the proper coolant mixture. Page Engine Fan Noise 6. Start the engine and let it run until you can feel the upper radiator hose getting hot. Watch out for the engine cooling fan. By this time, the coolant level inside the radiator filler neck may be lower. If the level is lower, add more of the proper DEX-COOL coolant mixture through the filler neck until the level reaches the base of the filler neck. When to Check Power Steering Fluid is not necessary to regularly check power steering

fluid unless you suspect there is a leak in the system or you hear an unusual noise. If you will be operating your vehicle in an area where the temperature may fall below freezing, use a fluid that has sufficient protection against freezing. See Engine Compartment Overview on page for the location of the reservoir. There are only two reasons why the brake fluid level in the reservoir might go down. The first is that the brake fluid goes down to an acceptable level during normal brake lining wear. Page Checking Brake Fluid can check the brake fluid without taking off the cap. Page Brake Wear Your vehicle has four-wheel disc brakes. Disc brake pads have built-in wear indicators that make a high-pitched warning sound when the brake pads are worn and new pads are needed. The sound may come and go or be heard all the time your vehicle is moving except when you are pushing on the brake pedal firmly. Your vehicle was designed and tested with top-quality GM brake parts. This will help keep your battery from running down. Batteries have acid that can burn you and gas that can explode. Check the other vehicle. Page Using a match near a battery can cause battery gas to explode. People have been hurt doing this, and some have been blinded. Use a flashlight if you need more light. Be sure the battery has enough water. Page 8. Now connect the black negative - cable to the negative - terminal of the good battery. Use a remote negative - terminal if the vehicle has one. Page Jumper Cable Removal A. How to Check Lubricant To get an accurate reading, the vehicle should be on a level surface. However, there are two additional systems that need lubrication. See Part Maintenance Inspections on page For any bulb changing procedure not listed in this section, contact your dealer. Halogen Bulbs Halogen bulbs ha pressurized gas can burst if you drop or scratch the bulb. Page Replacement Bulbs 3. Pull the assembly away from the vehicle. Unclip the wiring harness A and remove the three socket retaining screws B. Remove the socket by releasing the retaining tabs. Holding the socket, pull the bulb to release it from the socket. See Normal Maintenance Replacement Parts on page for the proper type of replacement blade. Notice: Use care when removing or installing a blade assembly. Press down on the blade assembly pivot locking tab. Pull down on the blade assembly to release it from the wiper arm hook. Remove the insert from the blade assembly. The insert has two notches at one end that are locked by the bottom claws of the blade assembly. Page A. Claw in Notch B. Correct Installation C. Incorrect Installation 6. Put the blade assembly pivot in the wiper arm hook. Pull up until the pivot locking tab locks in the hook slot. Carefully lower the wiper arm and blade assembly onto the windshield. Page Tires Tires Your new vehicle comes with high-quality tires made by a leading tire manufacturer. If you ever have questions about your tire warranty and where to obtain service, see your Warranty booklet for details. Poorly maintained and properly used tires are dangerous. Any time you notice unusual wear, rotate your tires as soon as possible and check wheel alignment. Also check for damaged tires or wheels. Page When It Is Time For New Tires Rust or dirt on a wheel, or on the parts to which it is fastened, can make wheel nuts become loose after a time. The wheel could come off and cause an accident. When you change a wheel, remove any rust places where the wheel attaches to the vehicle. When you get new tires, get ones with that same TPC Spec number. Page Uniform Tire Quality Grading Uniform Tire Quality Grading Quality grades can be found where applicable on the tire sidewall between tread shoulder and maximum section width. Sustained high temperature can cause the material of the tire to degenerate and reduce tire life, and excessive temperature can lead to sudden tire failure. Tire chains used on a vehicle without the proper amount of clearance can cause damage to the brakes, suspension or other vehicle parts. The area damaged by the tire chains could cause you to lose control vehicle and you or others may be injured in crash. Page The air inflator kit may be located in the glove box. The kit includes a 22 ft 6. To use the air inflator, attach the appropriate nozzle adapter to the end of the hose if required. Then attach that end of the hose to the object you wish to inflate. Turn off engine. Put the wheel blocks at the front and rear of the tire farthest away from the one being changed. That would be the tire on the other side of the vehicle, at the opposite end. The following steps will tell you how to use the jack and See Rear Seat Operation on page for more information. Page : - i The tools you'll be using include the wheel wrench A , tire blocks B , extension s socket end C , handle jack end D , and jack E. The Envoy XL will include an additional extension. The following instructions explain how to remove the spare tire mounted underneath your vehicle. Turn the wheel wrench counterclockwise to lower the spare tire. Keep turning the wheel wrench until the spare tire can be pulled out from under the vehicle. If the spare tire does not lower to the ground, the secondary latch is engaged causing the tire not to lower. Page Secondary Latch System Your vehicle has an underbody mounted tire hoist assembly equipped with a secondary latch system. For the secondary latch to work, the spare tire must be stored with the valve stem pointing up. If it is not visible, proceed to Step 6. If visible, first try to tighten the cable by turning the wheel wrench clockwise until you hear two clicks or feel it skip twice. You cannot overtighten the cable. Loosen the cable by turning the wheel wrench counterclockwise three or

four turns. Page 9. Lower the jack by turning the wheel wrench counterclockwise. Keep lowering the jack until the spare tire slides off the jack or is hanging by the cable. Disconnect the jack handle from the jack and carefully remove the jack. Use one hand to push against the spare while firmly pulling the jack out from under the spare tire with the other hand. Using the wheel wrench, loosen all the wheel nuts. Turn the jack adjusting knob clockwise by hand to raise the jack lift head. Place the handle. Page Rear A. Frame B. Jack C. Handle D. Extension s E. Wheel Wrench 4. Place the jack in the appropriate position nearest the flat tire. Getting under a vehicle when it is jacked up is dangerous. If the vehicle slips off the jack you could be badly injured or killed. Page 5. Raise the vehicle by turning the jack handle clockwise. Raise the vehicle far enough off the ground so there enough room for the spare tire to fit. Remove all the wheel nuts and take off the flat Rust or dirt on the wheel, or on the parts to which it is fastened, can make the wheel nuts become loose after a time. Page Never use or grease on studs or nuts. Your wheel could fall off, causing a serious accident. Place the spare on the wheel mounting surface. Put the nuts on by hand. Make sure the rounded end is toward the wheel Page Use the wrench to tighten the wheel nuts firmly in a crisscross sequence as shown. Incorrect wheel nuts or improperly tightened wheel nuts can cause the wheel to come loose and even come off. This could lead to an accident. Page Storing a Flat or Spare Tire and Tools Storing a jack, a tire, or other equipment in the passenger compartment of the vehicle could cause injury. In a sudden stop or collision, loose equipment could strike someone. Store all these in the proper place. The underbody-mounted spare tire needs to be stored with the valve stem pointing If the spare tire is stored with the valve stem Page Follow this diagram to store the underbody-mounted spare. Wheel Wrench B. Hoist Shaft C. Extension s D. Retainer E. Put the tire on the ground at the rear with the valve stem pointed up and to the rear. Page Return the jack, wheel wrench and wheel blocks to the proper location in the vehicle. Roll up the instruction label and return to the slot in the tool kit. Envoy XL A. Handle B. Wheel Wrench C. Wheel Blocks and Jack Some are toxic, Others can burst into flames if you strike a match or get them on a hot part of the vehicle. Some are dangerous if you breathe their fumes in a closed space. Page Here are some cleaning tips: Always read the instructions on the cleaner label. Clean up stains as soon as you can they set. Carefully scrape off any excess stain. Use a clean cloth or sponge, and change to a clean area often. Page Vinyl Use warm water and a clean cloth. Rub with a clean, damp cloth to remove din. You may have to do this more than once. In a crash, they might not be able to provide adequate protection. Clean safety belts only with mild soap and lukewarm water. Weatherstrips Silicone grease on weatherstrips will make them last longer, seal better, and not stick or squeak. Page Cleaning Exterior LampdLenses Use only lukewarm or cold water, a soft cloth and a car washing soap to clean exterior lamps and lenses. Page Windshield, Backglass and Wiper Blades If the windshield is not clear after using the windshield washer, or if the wiper blade chatters when running, wax, sap or other material may be on the blade or windshield. Clean the outside of the windshield with a full-strength glass cleaning liquid. Page Finish Damage Finish Damage Any stone chips, fractures or deep scratches in the finish should be repaired right away. Bare metal will corrode quickly and may develop into major repair expense. Minor chips and scratches can be repaired with touch-up materials available from your dealer or other service outlets. Tar and Road Oil Removes tar, road oil Remover and asphalt. White Sidewall Tire Removes soil and black Cleaner marks from whitewalls. You can see it if you windshield from outside your vehicle. Some add-on electrical equipment can keep other components from working as they should. When the current load is too heavy, the circuit breaker opens and closes, protecting the circuit until the problem is fixed or goes away. Fuses and Circuit Breakers The wiring circuits in your vehicle are protected from short circuits by a combination of fuses and circuit Remove the primary cover by pressing the two locking tabs. When adding, be sure to fill to the appropriate level, as recommended in this manual. Recheck the fluid level after filling. L6 Engine 4. Your Vehicle and the Environment Maintenance Requirements How This Section is Organized Part A: Scheduled Maintenance Services The Plan supplements your new vehicle warranties. See your Warranty and Owner Assistance booklet or your dealer for details. Your Vehicle and the Environment Proper vehicle maintenance not only helps to keep your vehicle in good working condition, but also helps the Page Part A: Scheduled Maintenance Services Part A: Scheduled Maintenance Services This part contains engine oil scheduled maintenance which explains the engine oil life system and how it indicates when to change the engine oil and filter. Also, listed are scheduled maintenance services which are to be performed at the mileage intervals specified. Page Scheduled Maintenance The services shown in this schedule up to , miles km should be repeated after , miles km at the same intervals for the life this vehicle. The services shown at , miles km should be repeated at the same interval after , miles km for the life of this vehicle. Page 7, Miles 12 0 Check readfront axle fluid level and add fluid as needed. Check constant velocity joints and axle seals for leaking. Rotate tires. See Tire

Inspection and Rotation on page for proper rotation pattern and additional information. Page 45, Miles 75 km Inspect engine air cleaner filter if you are driving in dusty conditions. Replace filter if necessary. An Emission Control Service. See footnote Check rear/front axle fluid level and add fluid as needed. Page 67, Miles 1 12 Check rear/front axle fluid level and add fluid as needed. CI Rotate tires. Replace spark plugs. Be sure any necessary repairs are completed at once. Whenever any fluids or lubricants are added to your vehicle, make sure they are the proper ones, as shown in Part D. Body Lubrication Service Lubricate all hood latch assembly, secondary latch, pivots, spring anchor, release pawl, rear compartment hinges, outer liftgate handle pivot points, rear door detent link, roller mechanism, liftgate handle pivot points, latch bolt, fuel door hinge, cargo door hinge, locks and folding seat hardware. If it does, you or others could be injured. Follow the steps below. Before you start, be sure you have enough room around the vehicle. You or others could be injured and property could be damaged. Make sure there is room in front of your vehicle in case it begins to roll, Page Part C: Periodic Maintenance Inspections Part C: Periodic Maintenance Inspections Listed in this part are inspections and services which should be performed at least twice a year for instance, each spring and fall. Inspect all pipes. Clean the outside of the radiator and air conditioning condenser. To help ensure proper operation, a pressure test of the cooling system and pressure cap is recommended at least once a year. Usage Gasoline Engines starburst symbol Engine Oil of the proper viscosity. To determine the preferred viscosity for your vehicle's engine, see Daae 5-Rear Driveline U. Also, you should retain all maintenance receipts. Maintenance Record Customer Satisfaction Procedure Customer Assistance Off ices Roadside Assistance Program Sometimes, however, despite the best Although you may be required to resort to this informal dispute resolution program prior to filling out a court action, use of the program is free of charge and your case will generally be heard within Page Maps include points of interest and a list of GMC dealers along the route, Page Transportation Options Warranty service can generally be completed while you wait. However, if you are unable to wait, GMC helps minimize your inconvenience by providing several transportation options. Depending on the circumstances, your dealer can offer you one of the following Box Page Service Bulletins Service Bulletins give technical service information needed to knowledgeably service General Motors cars and trucks. Each bulletin contains instructions to assist in the diagnosis and service of your vehicle. Additional Program Information Additives, Fuel Add-on Electrical Equipment Page Automatic Transmission Fluid Automatic Transmission Check Battery Replacement Checking Engine Oil Checking Things Under the Hood Infants and Young Children Customer Assistance Offices Page Electrical System Add-on Equipment Fuses and Circuit Breakers Headlamps Change Engine Oil Light Page Fluid Automatic Transmission Power Steering Windshield Washer Front Axle Front Storage Area Fuel Addltwes California Fuel Page Headlamps Bulb Replacement Electrical System Heated Seats Highway Hypnosis Hill and Mountain Roads Page Instrument Panel Brightness Interior Lamps Interior Plastic Components Jump Starting Key Lock Cylinders Service Keyless Entry System Lamps Exterior Lamps On Reminder Lap-Shoulder Belt Page Locks cont. Power Door Lumbar Power Controls Maintenance. Normal Replacement Parts Page New Vehicle Break-In Normal Maintenance Replacement Parts Odometer Off-Road Recovery Pressure Gage Online Owner Center Onstar System Onstar Personal Calling Onstar Services Page Personalizat

pontiac gt g6 2007
ford 40 sohc timing chain tool
04 suburban headlights

 ion Plan Ahead When Possible Playing a Cassette Tape Playing the Radio Power Accessory Outlets Lumbar Controls Rear Underseat Fuse Block Rear Window Defogger Reclining Seatbacks, Power Page Safety Belts cont. Safety Chains Safety Warnings and Symbols Scheduled Maintenance Seats Head Restraints Page Steering. Steering Tips Steering Wheel Comfort Controls Steering Wheel Controls, Audio Stereo RCA Jacks Storage Areas Convenience Net Front Storage Area Luggage Carrier Page Transfer Case Transmission Fluid, Automatic Transmission Operation, Automatic Transmission. Travel Note Recorder Trip Information Trip Odometer Turn and Lane Change Signals Page Weatherstrip Lubrication Weight of the Trailer Weight of the Trailer Tongue What Kind of Engine Oil to Use What to Add What to Do with Used Oil What to Use Wheels Alignment and Tire Balance Replacement Print page 1 Print document pages. Cancel Delete. Sign In OR. Don't have an account? Sign up! Restore password. Upload from disk. Upload from URL.